

Vol. 17, No. 25

WEEKLY
REPORT

Week Ending
June 22, 1968

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

CURRENT TRENDS MEASLES - United States

During the 4-week period, May 19 through June 15, 1968, (weeks 21 - 24), 2,684 cases of measles were reported to NCDC. This is a decrease of 700 cases from the preceding 4-week period and is 39 percent of the 6,831 cases reported for the corresponding 4-weeks in 1967 (Figure 1). The seasonal pattern of a gradual increase in the number of cases reported in each 4-week period since December 2, 1967, has ended, and the anticipated downward trend has begun.

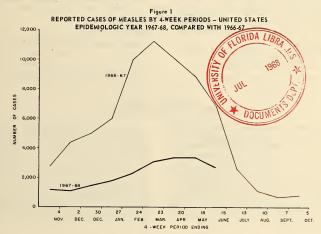
The cumulative number of measles cases reported for the first 24 weeks of 1968 is 16,597. During the comparable 24-week period in 1967 the reported cases totaled 53,043. Similarly, for the previous 3 years (1966, 1965, and 1964) the totals were 172,735, 220,468, and 422,640, respectively. Based on reporting for the past 3 years, in which 84 percent of the reported cases occurred in the

CONTENTS

CONTENTS	
Current Trends	
Measles - United States	2
Measles - Philadelphia, Pennsylvania 25	31
Epidemiologic Notes and Reports	
Measles - Los Angeles County, California 23	31
Salmonellosis - Wisconsin	
Food Poisoning - Spokane, Washington	3
International Notes	
Outbreaks of Pesticide Poisoning - Middle East 23	3.
Surveillance Summary	
Human Leptospirosis - United States 1967 23	2

first 24 weeks, an estimate of the total cases for the year 1968 would be 19,700. With an increased emphasis on measles surveillance which may result in change of diagnosis and reduction in the cases reported (MMWR, Vol. 17, No. 24) and continued emphasis on immunization, this estimated yearly total could be reduced.

(Reported by State Services Section, and Statistics Section, Epidemiology Program, NCDC.)



EPIDEMIOLOGIC NOTES AND REPORTS MEASLES - Los Angeles County, Californio

As part of the Los Angeles County Measles Surveillance Program, the 92 measles cases reported in Los Angeles County* for the period March 31 through June 1, 1968, have been investigated. The reporting source was contacted by telephone and when additional information was needed, the patient or his parent was also contacted. This follow-up study revealed that only 42 of the 92 reported cases had histories compatible with rubeola. Of these 42 measles cases, four were in children under 1 year of age, and the majority of cases (79 percent) occurred in children in the lower middle and lower socioeconomic groups (Table 1),

Toble 1 Rubealo Coses in Los Angeles County, Californio, by Age and Sociaeconomic Groups March 31 — June 1, 1968

1 C		Socioeconomic Group					
Age Group (Years)	Cases	Upper	Upper Middle	Lower Middle	Lower		
Under 1	4				4		
1 - 4	10		1	1	8		
5-9	14		3	6	5		
10-14	7	2		2	3		
15 & over	7		3	4			
Total	42	2	7	13	20		

Analysis of the 50 cases incorrectly reported as measles showed that the largest proportion of this group represented rubella cases (41). The diagnosis of the other nine cases was changed to allergy (3), chicken pox (2), scarlet fever (1), roseola (1), measles vaccine reaction (1), and pediculosis (1). The initial report was made by physicians in 11 cases and by nurses (usually school nurses who had not seen the patient) in the other 39 cases. Of the 41 cases in which the diagnosis was changed to rubella, 34 were reported as measles by the physician or nurse when each had meant German measles. In the other seven cases, the history of illness was typical of ruhella, and therefore, the diagnosis was changed. The age distribution of the 41 cases of ruhella (Table 2) revealed that nearly all the cases occurred in individuals in the second decade of life, a distribution typical of the natural occurrence of this disease.

Toble 2 Age Distribution of Rubello Coses in Los Angeles County, Californio, Originolly Reported as Rubealo Morch 31 — June 1, 1968

Age Group (Years)	Cases	
Under 1	0	
1-4	2	
5-9	2	
10-14	23	
15-19	12	
20-24	1	
25- 29	1	
Total	41	

(Reported by B. A. Kogen, M.D., Director, Immunization Project, and Chief, Acute Communicable Disease Control, and Gerald A. Heidbreder, M.D., Health Officer, Los Angeles County Health Department; Philip A. Condit, M.D., M.P.H., Chief, Bureau of Communicable Diseases, California State Department of Public Health; and an EIS Officer.

Reference:

¹Sever, J. L., et al: Rubella: Frequency of Antibody Among Children and Adults. Pediatrics 3δ(6):996-998, 1965.

CURRENT TRENDS MEASLES - Philadelphia, Pennsylvonio

From January 1 through June 3, 1968, Philadelphia reported 37 cases of measles (Figure 2). This is an increase of 10 cases over the total of 27 cases reported from Philadelphia for 1967. Review of age distribution of reported cases for 1968 (Table 3) reveals that 23 of the 37 cases were in children 5 years of age or less. Of the 37 cases, 15 were in school children. No secondary cases have been reported within the school system this year probably because Philadelphia employs a system of intensive measles case follow-up and vaccination of family and classroom contacts.

Of the 37 cases reported this year, 28 (76 percent) occurred in residents of two contiguous health districts located in a low socioeconomic area of the center city (Figure 2); these two health districts reported 12 (44 percent) of the city's 27 cases in 1967. Of the 28 cases reported in 1968 from these two districts, 21 occurred in children of Puerto Rican extraction (Table 4). Although they compose approximately 2 percent of Philadelphia's population, 57 percent of the city's reported measles cases in 1968 occurred in this group. Since early 1967 the special children's health service projects which serve

^{*}Excluding Long Beach, Pasadena, and Vernon.

Figure 2

REPORTED CAȘES OF MEASLES BY HEALTH DISTRICTS

PHILADELPHIA, PENNSYLVANIA

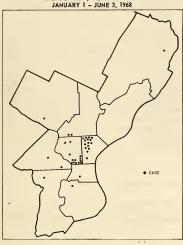


Table 3

Age Distribution of Reported Measles Coses

Age		
(Years)	Cases	Percent
Under 1	4	11
1 - 5	19	51
6-10	12	32
11-15	2	6
Over 15	0	0
Total	37	100

Toble 4

Distribution of Reported Measles Coses

By Population Groups

Population Group	Cases	Percent		
Puerto Rican	21	57		
Negro	12	32		
Other	4	11		
Total	37	100		

these two areas with the highest concentration of reported cases have become fully operational.

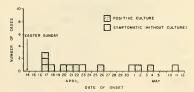
(Reported by Lewis D. Polk, M.D., Deputy Health Commissioner for Community Health Services, and Sylvan Fish, M.D., Chief of Communicable Disease Control, City of Philadelphia Health Department; and an EIS Officer.)

EPIDEMIOLOGIC NOTES AND REPORTS SALMONELLOSIS - Wisconsin

From April 16 to May 12, 1968, 10 cases of gastro-enteritis due to a dulcitol negative strain of Salmonella typhimurium occurred in nine families of three adjacent towns in northeastern Wisconsin (Figure 3). In addition to the 10 documented cases, another three cases of symptomatic diarrhea, not cultured bacteriologically, also occurred among the nine families. Infants in the families were apparently at greater isk when compared with older members since all children under the age of 5 years were affected while only three of 29 persons older than 5 years of age were symptomatic (Table 5). Of the 10 bacteriologically confirmed cases, six, all under 3 years of age, were hospitalized from 5 to 13 days. Four of the six infants had bloody diarrhea.

Epidemiologic investigation showed that all of the involved families had purchased Easter chicks or ducklings from a single pet store. A total of 650 chicks were supplied to the pet shop by a local hatchery. The hatchery also sold 600 other Easter chicks locally, but no cases of clinical illness could be traced to this source. Baby ducks were purchased by the pet shop from an Ohio dealer and

Figure 3
SALMONELLOSIS ASSOCIATED WITH EASTER CHICKS
AND DUCKS BY DATE OF ONSET
WISCONSIN - APRIL 14-MAY 12, 1968



were received in three separate lots of 100 each, arriving at the pet shop on April 2, 9, and 12, respectively.

On May 16, eight of the nine families were recultured.
Of 27 specimens taken, eight were positive for the epidemic strain. In addition, cloacal swabs were taken from 13 chicks from the original 650 sold by the pet shop, and (Continued on page 232)

SALMONELLOSIS - (Continued from page 231)

Table 5
Attack Rates far Diorrheo in Nine Families

Age Group (Years)	Number of Persons	Cases of Diarrhea	Attack Rate (Percent)
5	10	10	100
5 - 15	8	1	12
> 15	21	2	10
Total	39	13	33

the epidemic strain was recovered from two of these birds. Specimens from the cages where the chicks had been kept also yielded ducitol negative S. typhimurium as well as S. tennessee and S. muenchen.

(Reported by Grant Skinner, M.D., Chief, Section of Communicable Disease Control, Eleanor Christenson, Enteric Bacteriology Section, and Frank Pauls, Ph.D., Assistant

Director, State Laboratory of Hygiene, Wisconsin State Department of Health and Social Services; and an EIS Officer.)

Editorial Comment:

In 1966 and 1967, in a selected group of 803 salmonel non-host adapted strains submitted to the Enteric Bacteriology Unit, Bacteriology Section, Laboratory Program, NCDC, 18 or 2,2 percent were dulcitol negative.

Because of the infrequency of dulcitol negative salmonella, the Wisconsin State Department of Health and Social Services was alerted to the possibility of this epidemic when they began to recover strains with this characteristic in specimens sent to their state laboratory for analysis. Subsequent epidemiologic 'investigation confirmed that a common source outbreak of salmonella was occurring.

FOOD POISONING - Spakane, Washington

An outbreak of food poisoning occurred in Spokane, Manington, following a convention banquet at a large hotel on May 4. Of the 1,052 persons who at the banquet meal, 784 (75 percent) were questioned and 113 reported being ill, yielding an overall attack rate of 14.4 percent. The major symptoms of illness were diarrhea and abdominal cramps (Table 6). The mean incubation period was 13 hours with a range from 2 to 29 hours (Figure 4), and the durations of illness (determined by diarrhea) ranged from 3 to 99 hours with a median of 12 to 24 hours (Table 7). Four persons consulted a physician, and no one was hospitalized.

Analysis of food histories obtained from the 784 persons suggested prime rib as the vehicle of infection (Table 8). Samples of all food items served at the banquet

Table 6
Symptoms and Severity (113 Cases)
Foad Poisoning Outbreak
Spakane, Washington — May 1968

Symptoms	Number With Symptom		
Diarrhea	103	91.2	
Cramps	76	72.6	
Headache	44	38.9	
Nausea	42	37.0	
Prostration	39	34.5	
Chills	29	25.7	
Sveating	15	13.3	
Muscle aches	14	12.4	
Vomiting	11	9.7	
Fever	8	7.1	
Documented Fever	2	1.8	
Bloody Diarrhea	1	0.9	

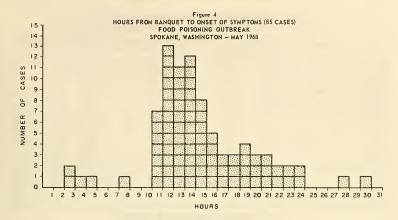
Table 7
Durotian of Diarrhea in 83 Cases

Duration of Diarrhea	Number of Cases
(Hours)	
0 - 12	27
12 - 24	27
24 - 36	4
36 - 48	16
48 - 60	1
60 - 72	5
72 or more	3
Total	83

were obtained for culture. The prime rib contained greater than 18 million Clostridium perfringens per gm and the prime rib au jus had in excess of 30 million per gm. C. perfringens, type 89, was present in four of five specimens from the roast beef served at the banquet, an untypable strain was present in two of the five, and Hobbs. type 13, was present in the prime rib au jus in addition to the other two types. No pathogens were isolated from the other foods. Samples of prime rib obtained within 1 month after the outbreak from two of the three packing houses supplying the hotel were also positive for C. perfringens, but types are not yet known for those isolates.

Of 19 stool specimens cultured for organisms, 11 were positive for C. perfringens, type 89, two specimens were positive for C. perfringens which were not agglutinated by available typing sera, and six were negative for C. perfringens. Of the 113 ill persons, 10 cases reported no diarrhea, but they did have abdominal cramps and or nausea. Some of the 10 were positive for C. perfringens, type 89.

Questioning of the people seemed to indicate that people from Spokane City and County had a higher attack rate



Toble 8 Summory of Foad Histories — Food Poisoning Outbreok Spokone, Woshinaton — May 1968

	Ate				Did Not Eat				
Food	Number Ill	Number Not Ill	,Total Number	Attack Rate Percent	Number Ill	Number Not Ill	Total Number	Attack Rate Percent	Percent Difference
Crab Cocktail	102	478	580	17.6	11	193	204	5.4	12.2
Green Salad	92	446	538	17.1	21	225	246	9.8	7.8
Baked Potato	103	478	581	17.7	10	193	203	4.9	12.8
Prime Rib	113	643	756	14.9	0	28	28	0.0	14.9
String Beans	102	479	581	17.6	11	192	203	5.4	12.2
Hard Roll	86	424	510	16.9	27	247	274	9.9	7.0
Chocolate Eclair	90	429	519	17.3	23	242	265	9.5	7.8
Milk	34	123	157	21.7	79	548	627	12.6	9.1
Coffee	87	423	510	17.1	26	248	274	9.5	7.6

than people from other parts of the state. When this possibility was investigated, it was learned that the banquet was held in several dining rooms and at different times, 7-8 p.m., 8-9 p.m., and 9-10 p.m., and that the group from Spokane City and County ate in one dining area (Area A) and at a later time (8-10 p.m.) than the other groups. When attack rates were obtained for location and time of eating, Area A had higher attack rates than the other areas. Investigation of the foods served in the various dining areas revealed that all foods came from the same source. All the meat for Area A and the major portion of the meat for the main dining room were obtained from 30 roasts which were handled uniformly until completion of slicing. Then approximately 150 servings went to Area A and the other 450 went to the main dining room. The roast beef in dining Area A had not been placed in warmers after slicing while that served in the main dining room had been placed in

warmers. The lack of warming combined with the late serving (40 to 120 minutes after slicing) may explain the higher attack rate in dining Area A. The data suggest that the beef may have been uniformly contaminated originally and that handling procedures after cooking were responsible for the differing attack rates in the various dining areas. Appropriate remedial changes in kitchen procedures have been made.

(Reported by Byron J. Francis, M.D., Acting Chief, Division of Epidemiology, and James A. Bessey, Advisory Sanitarian, Division of Environmental Services, Washington State Department of Health; Stuart A. Davis, W.D., Spokane City Health Officer, and Roy Olson, Supervising Sanitarian, Spokane City Health Department; E.O. Ploeger, M.D., M.P.H., Spokane County Health Officer; Anaerobic Bacteriology Laboratory, Bacterial Reference Unit, Labonatory Program, NCDC; and a team of EIS Officers.)

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative fata	is include revised of	id delayed reports t	hraugh previau:	s weeks)		
	25th WEE	K ENDED	MEDIAN	CUMULATIVE, FIRST 25 WEEKS		
DISEASE	June 22, June 24, 1963 - 1967	1968	1967	MEDIAN 1963 - 1967		
Aseptic meningitis Brucellosis Diphtheria Encephalitis, primary:		57 8 3	37 7 3	832 78 86	848 125 53	722 125 79
Arthropod-borne & unspecified	8 100	35 32 64 679	577	4,121 263 1,952 21,066	635 449 984 19,133	} 20,117
Malaría	31 522 65 59	52 888 34 28	3,999 50	1,001 17,119 1,617 1,460	963 53,931 1,380 1,276	45 224,467 1,555
Military Mumps Poliomyelitis, total Paralytic	2, 128	1	1 1	157 114,074 19	104 11 9	19 17
Rubella (German measles) Streptococcal sore throat & scarlet fever Tetanus Tularemia	5, 438 6 5	1, 232 6, 093 5 3	5, 498 7 5	38,970 251,479 64 86	35,972 271,975 86 71	246, 225 107 114
Typhoid fever Typhus, tick-borne (Rky, Mt. spotted fever) . Rabies in animals	13	6 13 80	9 15 90	134 75 1,776	183 80 2, 231	172 69 2, 231

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: Boulosim Burnel Burne	13 -	Rabjes in man: Rubeila Congenital Syndrome: Trichinosis: Typhus, murine:	3 35

INTERNATIONAL NOTES OUTBREAKS OF PESTICIDE POISONING - Middle East

During June and July 1967, four separate outbreaks of perticide poisoning occurred in the Middle East. The first three outbreaks were in Doha, Qatar, and the fourth was in Hofuf, Saudi Arabia. Of the persons exposed, 874 persons were hospitalized and 26 of these persons died (Table 9); it was estimated that another 500 to 750 people were also poisoned but that their symptoms were not severe enough for them to seek medical care or hospitalization. The poisonings were caused by ingesting bread made from flour contaminated with endrin.*

The patients' symptoms included headache, abdominal discomfort, nausea and dizziness, sudden loss of consciousness, vomiting, and convulsions - symptoms compatible with acute chlorinated hydrocarbon intoxications

(Table 10). Onset of symptoms occurred an average of 2.3 hours after ingesting the contaminated bread at the break-fast meal with a range from 30 minutes to 10 hours. In the outbreaks, more males seemed to be affected than females (Table 11). The exact reasons for this male preponderance were not known, but it was postulated that often the wage-earner ate a larger breakfast than the other family members and possibly ingested more of the chemical.

Epidemiologic investigation showed that the source of exposure was bread contaminated with endrin. Laboratory analysis found the bread, flour used to make the bread, and the flour sacks to be contaminated with endrin. Although the flour had been transported to the countries in two separate ships, both ships involved had also, on the

Table 9
Summary of Number of Persons Haspitalized and Deaths in Four Outbreaks

Outbreak	Date (1967)	Number of Persons Hospitalized	Number of Deaths	Fatality Rate (Percent)
First Doha	June 3-5	490	7	1.4
Second Doha	July 2	13	0	0.0
Third Doha	July 3-4	188	17	9.5
Hofuf	July 14-15	183	2	0.4
Total		874	26	3.1

Table 10

Mast Cammon Symptams Given by Persans
in Twa af the Faur Outbreaks

	Percentage with Indicated Symptoms							
Symptoms	First Doha Outbreak (Number of Persons Interviewed-110)	Hofuf Outbreak (Number of Persons Interviewed-54)						
Vomiting	69	83						
Convulsions	65	67						
Abdominal								
Disconfort	48	19						
Nausea and								
Dizziness	38	28						
Headache	60	2						
Sudden Loss of								
Consciousness	. 5	4						

same voyage, carried large shipments of the chemical. Investigation showed that the endrin was stored above the flour on both ships and that the endrin had leaked through faulty containers onto the flour.

The governments of both Qatar and Saudi Arabia have taken the following steps to prevent a similar incident in the future: (1) All foodstuffs are to be inspected before delivery of the food is accepted. This inspection requires that the ship's captain provide a list of dangerous goods carried on board the ship, that the cargo as well as stowage diagrams be examined to determine the presence and location of toxic chemicals on the ship, and that a sanitary inspector verify the cargo and inspect it for any contamination of foodstuffs that may have occurred. (2) Foodstuffs accepted for delivery are to be brought from the ship to shore in one of three barges painted white to designate for food only.

(Reported by Pesticides Program, NCDC.)

Reference:

¹Weeks, D.E.: Endrin Food Poisoning. Bull Wld Hlth Org 37:499-512, 1967.

*Endrin is 1,2,3,4,10, 10-hexachloro-6,7 epoxy-1,4,4a,6,7,8,8a-octahydro-1-4-endo-endo-5-8-dimethanonaphthalene, an insecticide used in agriculture against soil and foliage insects.

Table 11
Sex Distribution of Haspitalized Persons in Three of the Four Outbreaks

		Percentage of Each Sex	
Sex .	First Doha Outbreak	Third Doha Outbreak	Hofuf Outbreak
	(Number of Persons	(Number of Persons	(Number of Persons
	Interviewed-110)	Interviewed-169)	Interviewed-54)
Male	63	68	69
Female	37	32	31

SURVEILLANCE SUMMARY HUMAN LEPTOSPIROSIS - United States 1967*

Although no outbreaks of human leptospirosis were reported to NCDC in 1967, 51 separate cases of human leptospirosis were reported. The 51 cases were distributed among 16 states with California and Hawaii reporting nine cases each, Louisiana reporting eight cases**, and Iowa reporting seven cases; 12 other states reported three or fewer cases.

Additional information was submitted to NCDC on 43 of these 51 cases. Evaluation of the 43 cases by date of onset showed that July, August, and September were the months of highest incidence with six, eight, and six cases, respectively (Table 12). Analysis of the sex distribution of these 43 cases revaled that the majority of cases occurred in males (32 of 43 cases) (Table 13). Age was known in 38 of the 43 cases. Among males, the 10 to 19-year and the 50 to 59-year age groups each had 6 cases,

Table 12 Manthly Distribution of Human Leptaspirasis by Date of Onset United States, 1967

Month	Number of Cases
January	2
February	2
March	3
April	1
May	3
June	1
July	6
August	8
September	6
October	1
November	1
December	1
Unknown	8
Total	43

*Preliminary dat

*In addition to the eight cases reported from Louisiana with dates of onset in 1967, Louisiana reported two cases with onset of illness in 1966.

(Continued on page 240)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JUNE 22, 1968 AND JUNE 24, 1967 (25th WEEK)

UNITED STATES. 1968 1967 1968 1968 1968 1968 1968 1967 1968						_	ENCEPHALIT	15		HEPATITIS		
UNITE STATES. 78 37 7 - 18 35 8 100 893 679 31 EM ENCLAND 1 1 1 3 42 25 1 Mainte 1 1 1 3 42 25 1 Vermont 2 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 3 1 - 2 3 1 2 3 3 1 3 3 1 3 3 1 3 3 3 1 3 3 3 3	AREA			BRUCELLOSIS	DIPHTHERIA	incl	uding	Post= Infectious	Serum	Infec	tious	MALARI
EM ENCLAND.		1968	1967	1968	1968	1968	1967	1968	1968	1968	1967	1968
EM ENCLAND.	UNITED STATES											
Maine							1			1		
New Hampshire?	NEW ENCLAND	-	-	1		-						1
Vermont	Maine	-	-	-		-	1					-
Mastanhaetts	New Hampshire *	-	-	-		-		-	-	-	1	-
Rhode Island.		-	1			-		-	-		-	-
Connecticut.	Massachusetts	-	-	-	-	-		-				-
REDUIL ATLANTIC. 8 5 -	Khode Island	-	-	-	-	-						
New York City. 1	Connecticut	_	_	_	-	-	-	1	-	8	3	1
New York City. 1	MIDDLE ATLANTIC	8	S		_	2			24	166	100	
New York, up-State. 1					_							
New Jersey 6 3 3 - 1 3 - 1 40 12 3 3 - 1 40 12 3 5 2 50 21 2 2 AST NORTH CENTRAL 6 5 5 - 8 8 9 1 3 5 151 103 11 103 11 5 1 13 48 26 1 104 14 1 1 5 1 1 3 48 26 1 104 14 1 1 5 1 1 3 48 26 1 104 14 1 1 5 1 1 3 48 26 1 104 14 1 1 5 1 1 3 48 26 1 104 14 1 1 5 1 1 3 48 26 1 104 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	New York, un-State.	1	1	-	-	1 -		-				
Pennsylvania	New Jersev	6	3	-	-	1	3	-		40		3
AST NORTH CENTRAL. 6 5 5 - 8 9 1 5 151 103 1 1 Ohio 4 2 - 1 5 1 3 48 26 - 1 Indiana 1 3 48 26 - 1 Indiana 1 1 5 1 3 48 26 - 1 Indiana 1 1 5 1 3 48 26 - 1 11 Andrew	Pennsylvania	-		-	-	1		-				
Obio							1					_
Indiana	EAST NORTH CENTRAL	6		-	-	8	9	1	5	151	103	1
Indiana	Ohio	4	2	-	-	1		1	3	48	26	-
Illinois	Indiana	-		-			3	-	-	11		-
### Misconsin.	Illinois			-			-	-	-			1
### North Central. 1	Michigan		1	1	1	1	1	-				-
Minestra - - - - 1 16 13 - 10 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 10	Wisconsin	-	-	-	-	-		-		16	9	-
Minestra - - - - 1 16 13 - 10 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 13 1 10 10												
Towns		-	-			-	-					3
Missouri.		-	-	-	-	-	-	-	1			-
North Dakota	Iowa		1	-	-	-	-	-	-			
South Dakota	Missouri	-	-	-		-	1					1
Nebraska		-	-	1 7		-	-					-
Maneas - - - - - - - - -	Nobrooks	-	-			-	-				-	-
OUTH ATLANTIC. 11 5 4 - 2 5 - 3 68 69 5 Delaware 3 3 - 8 Delaware 3 3 - 8 Delaware 3 3 - 8 Delaware 3 3 3 3 3	Nebraska	-	-	1		-		1 1			-	1 7
Delaware -	Katisas		-	-	_	-	-	_	-	3	5	1
Delaware -	OTTMATTA HTHOS	11	5		_	2			2	60		
Maryland 3	Delaware	11	1 2		1							
Dist. of Columbia 1 2 1 2 1		3				ī	} [
Virginia. - - - - - - 5 14 2 Mest Virginia. - - - - - - 12 5 1 North Carolina. - - - - - 1 2 - - 1 2 - - 1 2 - - 1 2 - - - 1 2 - - - 1 2 - - - - 1 - - 1 - - 1 -	Dist. of Columbia											
Mest Virginia. 3		-		2	_	_	1					2
North Carolina	West Virginia	3	1		-	-	-	-	_			
South Carolina 1 2 2 7 7 2 7 7 2 7 7 2 7 7 2 7 7 2 7 7 2 7 7 2 7 7 2 7 7 2 7 7 2 7 7 7 2 7 7 7 2 7 7 7 2 7 7 7 2 7 7 7 2 7 7 7 2 7 7 7 2 7 7 7 2 7 7 7 2 7 7 7 2 7 7 7 2 7 7 7 7	North Carolina	-	1	1	-	1	4	_	_		9	l î
Georgia	South Carolina	-	-	-	-	-		-	_			1
AST SOUTH CENTRAL. 4 8 1 1 - 3 35 43 2 Kentucky 1 - 1 - 3 35 43 2 Kentucky 1 - 1 - 3 15 43 5 Tennessee. 1 6 1 1 - 3 17 18 - 1 18 1 1	Georgia	-	-	-	_	-	-	-	-	2		-
Rentucky.	Florida	5	3	1	-	-	1	-	-	18	14	1
Rentucky.												Į.
Tennessee 6 1 1 - 3 17 18 - Alabasa		4	8	1	-	-	1	-	3	35	43	2
Alabama	Kentucky	-			-	-		-		14	15	-
Mississippi. 3 3 8 1 EST SOUTH CENTRAL. 28 8 3 2 74 90 - Arkinnsa 14 4 4 4 15 18 11 1 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14	Tennessee	-		1	-	-	1	-	3	17	18	
### SOUTH CENTRALL				-	-	-						
Arkansasa	Mississippi	3	-	-	-		-	-	-	3	8	1
Arkansasa	TECT COURT CENTER (20										
Louis lanama 22 3 3 - 2 2 2 - 133 11 - 0	WEST SOUTH CENTRAL	28				3	2	-	-			
0k laboma. - - - - 8 9 Texas. 6 5 - 1 - - 39 66 - MONTAIN. - - - 2 - 3 67 31 - MONTAIN. - - - - - 5 1 - Myoming. - - - 1 2 42 6 Colorado. - - - 1 2 42 6 New Mexico. - - - - 10 10 Arizona. - - - - 1 3 4 Nevado. - - - - - - - Nevado. - - - - - - - - Valenting. - - - - - - -<	Arkdnsas	22				-						-
Texas 6 5 - 1 - 2 - 39 66 - 100NTAIN 39 66 - 100NTAIN 2 - 3 67 31 - 100NTAIN 5 1 5 1 5 1 5 1 1 - 2 - 1 1 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Oblahama					2	2	-				
New Mexico	Toyae				4	Ţ,	-	-				-
Montana	16V49***********	0	,	-	-	1	-	-		39	66	-
Montana	MOINTAIN				-		2		2	(7	23	
Idaho.	Montana			_				-				-
Myoming.	Idaho			1	1							-
Colorado 1 - 2 42 6 10 10 10 10 10 10	Wyoming											_
New Mexico 100 10 100 10	Colorado	-					1		2			
Arizona		-	-	-	-	-						
Utah. - - - - - 1 - <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td> <td>3</td> <td></td>		-	-	-	-	-			-		3	
Newada	Utah		-	-		-		-	1			
PACIFIC. 21 26 1 - 2 6 6 48 247 156 11 Mashington 1 16 8 4 Oregon - 1 2 9 6 1 California 19 21 1 - 2 5 6 46 221 137 6 Alaska 1 - 5 - Hawaii 1 4 1 - 1 1		-	-	-	-	-	1	-				
Mashington 1 - - - 166 8 4 Oregon - 1 - - - 2 9 6 1 1 California 19 21 1 - 2 5 6 46 221 137 6 Alaska - - - - - - 1 - 1 - - 1 Havaii 1 4 - - 1 - 1 - - 1 -												
Mashington 1 - - - 166 8 4 Oregon - 1 - - - 2 9 6 1 1 California 19 21 1 - 2 5 6 46 221 137 6 Alaska - - - - - - 1 - 1 - - 1 Havaii 1 4 - - 1 - 1 - - 1 -	PACIFIC		26	1	-	2	6	6	48	247	156	11
Oregon. - 1 - - - 2 9 6 1 California. 19 21 1 - 2 5 6 46 221 137 6 Alaska. - - - - - - - - - - - Hawaii. 1 4 - - 1 - - 1 - -	Washington		-	-	-		-	-				
California 19 21 1 - 2 5 6 46 221 137 6 Alaska 5 5 - 1 1 - 1 - 1 - 1 -	Oregon				-	-	-	-	2			
Alaska	California	19	21	1	-	2	5	6		221		
Hawaii	Alaska	-	-				-			-		
	Hawaii	1	4	-	-	-	1	-	-	1	-	-

*Delayed Reports: Hepatitis, infectious: N.H. 1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

JUNE 22, 1968 AND JUNE 24, 1967 (25th WEEK) - CONTINUED

	ME/	SLES (Rube	ola)	MENINGO	COCCAL IN	FECTIONS,	MUMPS	F	OLIOMYELI	TIS	RUBELLA
AREA		Cumul	ative			lative		Total	Para	lytic	
	1968	1968	1967	1968	1968	1967	1968	1968	1968	Cum. 1968	1968
UNITED STATES	522	17,119	53,931	65	1,617	1,380	2,128	-	-	19	1,307
NEW ENGLAND	47	985	744	6	86	57	247				365
Maine.*	-	30	221	-	6	3	13	1		1 1	18
New Hampshire	-	113	72 28	-	7	2	1	1	-	1 5	1
Vermont Massachusetts*	24	315	282	2	37	29	11 119	1		_	1 167
Rhode Island	23	1 525	60	- 4	7	4	32	-	-	-	39
Connecticut	23	343	81	4	28	19	71	-	-	-	139
MIDDLE ATLANTIC	191 120	3,103	1,992 368	11	279	210	217	-	-	-	256
New York City New York, Up-State.	40	1,378 1,073	442	2	57 44	36 51	119 NN	1	1	1	158 32
New Jersey*	22	508	.463	6	102	80	98	-	-	-	59
Pennsylvania	9	144	719	2	76	43	NN	-	-	-	7
EAST NORTH CENTRAL	67	3,441	4,841	13	188	176	435	-	-	-	224
Ohio Indiana	9	270 601	1,089 550	6	51 26	62 21	53 48	-		1	47 12
Illinois	22	1,286	845	-	39	43	62	-	-	-	79
Michigan Wisconsin	11 16	228 1,056	852 1,505	4	56 16	38 12	272	1	-	1 :	40 46
							l		_	-	46
WEST NORTH CENTRAL	13	345 15	2,677 125	5 1	83 19	63 15	41	1	1	1 :	35
Minnesota Iowa	5	86	725	-	5	12	25			1	25
Missouri	4	80 117	300	4	30	12	2	-	-	-	3
North Dakota South Dakota		4	782 47	-	3 4	6	- NN		-	-	1 -
Nebraska	-	35	606	-	6	11	1	-	-	-	1
Kansas	- 1	8	92	-	16	6	13	-	-	-	5
SOUTH ATLANTIC	45	1,256	6,344	- 15	338	264	165	-	-	-	129
Delaware Maryland	6	12 79	40 127	ī	5 23	5 32	5 29	-		1 :	34 6
Dist. of Columbia	-	6	20	1	13	9	10				1
Virginia	1 .	261 210	1,930	4	27	27	22	-	-	-	21
West Virginia North Carolina	8	273	834	2	8 67	20 53	45 NN		-	1 :	18
South Carolina	-	12	486		54	24	-	-	-	-	-
Georgia Florida	28	399	29 1,581	6	60 81	43 51	54	-	-	1	49
EAST SOUTH CENTRAL Kentucky	3	498 165	4,853 1,254	5	139 51	117	200 73	-	- 1	-	48 21
Tennessee	1	54	1,671	2	48	47	118	-	-	-	18
Alabama	2	71 208	1,281	2	20 20	24 12	9	-	-	-	9
							_	-		-	_
WEST SOUTH CENTRAL Arkansas	79	4,326	16,561 1,400	3	266 15	197 25	208	1 1	-	11	44
Louisiana	-	2	143	1	72	78	1		-		5
Oklahoma Texas	79	109 4,213	3,311 11,707	2	48 131	13 81	207			11	39
				-						11	
MOUNTAIN	26	895	4,243 268		24	25	90	-	-	-	36
Idaho	- 1	16	359	-	10	1	8 4	1	-		1 -
Wyoming Colorado	22	49 458	168		-	1	-	-	-	-	.:
New Mexico	1	458 81	1,383 552		7 -	10 3	16 1	-		-	12 6
Arizona	3	199 21	922		1	4	40	-	-	-	16
Utah Nevada		5	322 269		3	2	21	1		1	1 -
DACTRIC	51	2 270	11.626	-							
PACIFICWashington	5	2,270 512	11,676 5,356	7 1	214 36	271 24	525 10		-	8	170 6
Oregon	15	432	1,469	-	16	24	10	-	-	-	11
California Alaska	31	1,291	4,595 124	6	150	212	489 5	1	- :	8	147 1
Hawaii	-	34	132	-	11	2	11	- 1	- 1	-	5
Puerto Rico	16	331	1,917	1	18	9	18	_	-		
			16, N.J. d								

*Delayed Reports: Measles: Mass. delete 16, N.J. delete 4 Mumps: Me. 5, N.H. 1 Rubella: Me. 4

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

JUNE 22, 1968 AND JUNE 24, 1967 (25th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TET	ANUS	TULA	REMIA	TYP	HOID	TICK	S FEVER -BORNE . Spotted)		ES IN
	1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968
UNITED STATES	5,438	6	64	5	86	7	134	13	75	51	1,776
											·
EW ENGLAND	1.057		1		40	-	4		-	1	61 50
Maine.* New Hampshire.*	18			-							30
Vermont	19				40			1			
Massachusetts	159	-	- 1	-	-	_	2	_	_	-	
Rhode Island	77	-	- 1	-	-	-	-	_	-	-	
Connecticut	784	-	1	-	-	-	2		-	1	
DDLE ATLANTIC	240	-	9	-	3	1	12	1	5	-	1
New York City	13	-	5	-	-	1	7	-	-	-	1
New York, Up-State.	214	-	4	-	3	-	2	-	1	-	1
New Jersey	NN	-	-	-	-	-	-	-	-	-	
Pennsylvania	13	-	-	-	-	-	3	1	4	-	
ST NORTH CENTRAL	535	-	8	-	6	-	21	1	3	5	16
Ohio	152	-	- 1	-	1	-	11	1	2	3	
Indiana	113	-	1	-	7	-	1	-	-	1	
Illinois	79		5	1	4	1 1	8	1 :	1	-	
Michigan	144 47		2	1	1 -		1		-	1	
Wisconsin	47	-	1	-	-	_	1			1	
ST NORTH CENTRAL	115	-	2	-	6	2	7	-	2	12	40
Minnesota	20	-	- 1	-	-	-	-	-	-	2	1
Iowa	26	-		-		1	1	-	-	1	7
Missouri	3	-	2	-	4	-	3	-	-	4	1
North Dakota	43	-	1 1	-	1	-	1		1	2	
South Dakota	20	- 1		-	1	1	2		1	1	3
Nebraska Kansas	-		1 1		1	-	2		1 .	2	
	-				,	-		_		2	1 '
UTH ATLANTIC	574	1	12	-	5 .	1	36	6	45	8	20
Delaware.*			7	-	-		1 5			-	
Maryland	119 25	1	1	-	-	1	6	1	4	-	
Dist. of Columbia	179	-	1 2	1	1	-	7	3	20	1	
Virginia West Virginia	123		1	1	1		_ ′	3	20	1	
North Carolina	4	_	2		2	_	2	2	14	1	1 '
South Carolina	2	-	1	- 1	-	-	_		1	_	
Georgia	3	-	1 1	-	1	-	9	-	4	3	
Florida	119	-	4	- 1	1	-	11	-	2	3	
ST SOUTH CENTRAL	778	1	9	-	6	-	15	-	8	8	4
Kentucky	54	-	1	-	1	-	2	-	1	6	20
Tennessee	649	-	2	-	4	-	10	-	5	2	2
Alabama	37	1	3		-	-	-	-	1	-	
Mississippi	38	-	3	-	1	-	3	-	1	-	
ST SOUTH CENTRAL	386	4	11	4	15	1	10	4	10	9	. 3
Arkansas	2	3	4	- 1	1	-	1	-	-	2	
Louisiana	6	1	5	2	3	-	1	-		1	
Oklahoma Texas	24 354	-	2	1	3 8	1	2 6	4	4	2 4	10
							i		1		
OUNTAIN	854	-	-	-	4	-	9	-	1	1	
Montana	8 58	-	-		-	1	-	-			
Wyoming	90	-	-		1	-	1				
Colorado	445	_	-	_	1	-	2	_	1		
New Mexico	145	-	-	-		_	6	-	_	1	
Arizona	88	-	-	-	-	-	-	-			
Utah	101	-	-	-	2	-	-	-	-	-	
Nevada		-		-			-	-	-		
CIFIC	899	-	12	1	1	2	20	1	1	7	1:
Washington	138 76		1	1	1	1	3		1 1		
Oregon	624		11	-	1	1	17	1	1	7	1:
Alaska	17		- 11			-	- 17	1	-		1.
Hawaii	44	-	-			-	_		-	-	
											About
erto Rico	3		5	-	-	1	1			1	

^{*}Delayed Reports: SST: Me. 5, N.H. 7, Del. 1

Week No. 25

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED, JUNE 22, 1968

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

	sy place of	occurrenc	e and week	01 1111	ing certificate. Excludes	retai deatr	15)		
	All Ca	uses	Pneumonia	Under		All Ca	uses	Pneumonia	Under
Area	A11	65 years	and	1 year	Area	A11	65	and	1 year
AL CA	Ages	and over	Influenza	A11	nieu.	Ages	65 years and over	Influenza	A11
	8		All Ages	Causes		0	ana over	All Ages	Causes
	210	400		00					
NEW ENGLAND:	710 217	420 113	31 14	29 16	SOUTH ATLANTIC: Atlanta, Ga	1,148 109	614 55	38 1	39 7
Boston, Mass Bridgeport, Conn	54	44	5	3	Baltimore, Md	230	136	3	4
Cambridge, Mass	29	16	-	2	Charlotte, N. C	49	20	2	- 1
Fall River, Mass	22	17	2	-	Jacksonville, Fla	60	28	1	3
Hartford, Conn	69	41	2	1	Miami, Fla	124	57	-	4
Lowell, Mass	25	11	1	- 1	Norfolk, Va	45	16	4	3
Lynn, Mass	15	12	1	2	Richmond, Va	84	51	1	2
New Bedford, Mass	17 60	12 31	1	1	Savannah, Ga	41 97	18 77	4 2	3
New Haven, Conn Providence, R. I	58	29	_	2	St. Petersburg, Fla Tampa, Fla	66	35	11	2
Somerville, Mass	16	9	-		Washington, D. C	177	82	5	6
Springfield, Mass	49	30	-	1	Wilmington, Del	66	39	4	4
Waterbury, Conn	18	14	-	- 1					
Worcester, Mass	61	41	4	1	EAST SOUTH CENTRAL:	652	335	26	29
100 page 100	2 007	1 700	115	100	Birmingham, Ala	101	60	-	4
MIDDLE ATLANTIC:	3,086	1,782	115	132	Chattanooga, Tenn	33	17	-	3
Albany, N. Y Allentown, Pa	41 38	17 21	1 -	3 4	Knoxville, Tenn Louisville, Ky	43 156	25 87	3 10	1 4
Buffalo, N. Y	129	- 65	5	7	Memphis, Tenn	134	68	4	5
Camden, N. J	45	24	3	4	Mobile, Ala	39	18	3	4
Elizabeth, N. J	33	20	2	1	Montgomery, Ala	51	19	2	4
Erie, Pa	45	28	1	3	Nashville, Tenn	95	41	4	4
Jersey City, N. J	53	25	1	3. 5	WEST SOUTH CENTRAL:				
Newark, N. J New York City, N. Y	65 1,492	34 851	5 54	59	Austin, Tex	1,222	625 30	40	106 3
Paterson, N. J	38	24	2	1	Baton Rouge, La	51	33	3	3
Philadelphia, Pa	508	299	11	23	Corpus Christi, Tex	24	13	1 1	3
Pittsburgh, Pa	212	119	7	10	Dallas, Tex.	159	76	1	17
Reading, Pa	51	35	2	-	El Paso, Tex	28	8	1	6
Rochester, N. Y	92	61	5	6	Fort Worth, Tex	100	51	1	7
Schenectady, N. Y	24 52	15 35	2		Houston, Tex	244	116	3	26
Scranton, Pa Syracuse, N. Y	66	49 - 1	.4	1	Little Rock, Ark New Orleans, La	75 156	33 80	5	7
Trenton, N. J	54	29	4	î	Oklahoma City, Okla	86	40	4	9
Utica, N. Y	15	- 7	3	ı î	San Antonio, Tex	113	58	4	13
Yonkers, N. Y	33	24	3	-	Shreveport, La	70	45	3	7
	·				Tulsa, Okla	64	42	4	2
EAST NORTH CENTRAL: Akron, Ohio	2,573 73	1,479 41	84	106 1	MOUNTAIN:	419	228	15	
Canton, Ohio	38	18	1	2	Albuquerque, N. Mex	37	19	2	28 4
Chicago, Ill	757	425	29	33	Colorado Springs, Colo.	29	18	4	2
Cincinnati, Ohio	140	89	1	3	Denver, Colo,	127	69	2	11
Cleveland, Ohio	202	103	4	5	Ogden, Utah	14	5	-	- 1
Columbus, Ohio	138	72	4	7	Phoenix, Ariz	88	52	2	7
Dayton, Ohio Detroit, Mich	· 99	51 177	2	7	Pueblo, Colo Salt Lake City, Utah	21	13	1	1 7
Evansville, Ind	49	33	13	10 1	Tucson, Ariz	56 47	24 28	3	4
Flint, Mich	60	29	-	3	1	4/	20	1	
Fort Wayne, Ind	56	39	2	3	PACIFIC:	1,549	900	25	82
Gary, Ind	31	12	2	4	Berkeley, Calif	13	8	-	-
Grand Rapids, Mich	84	61	4	2	Fresno, Calif	47	23	1	3
Indianapolis, Ind	127 28	80	1 5	5 2	Glendale, Calif Honolulu, Hawaii	26 44	16	1 ;	2
Madison, Wis Milwaukee, Wis	119	16 70	1	9	Long Beach, Calif	92	13 56	1 3	7 6
Peoria, Ill	30	16	1 2	3	Los Angeles, Calif	448	272	11	19
Rockford, Ill	30	20	4	2	Oakland, Calif	80	49	2	2
South Bend, Ind	31	22	2	-	Pasadena, Calif	33	25	-	1
Toledo, Ohio	101	60	5	3	Portland, Oreg	121	78	1	4
Youngstown, Ohio	64	45	2	1	Sacramento, Calif	55	29	1	4
UPOT NODTH CENTRAL	829	490	17	47	San Diego, Calif San Francisco, Calif	99	51	-	8
WEST NORTH CENTRAL: Des Moines, Iowa	64	490	3	2	San Francisco, Calif	199 61	111 38	2	9 2
Duluth, Minn	25	14		-	Seattle, Wash	157	86	3	12
Kansas City, Kans	46	19	3	6	Spokane, Wash	46	28	-	2
Kansas City, Mo	132	89	1	6	Tacoma, Wash	28	17	-	1
Lincoln, Nebr	36	19	2	2	m . 1				
Minneapolis, Minn	110	65	1	5 7	Total	12,188	6,873	391	598
Omaha, Nebr St. Louis, Mo	73 218	36 126	6	16	C	mulative T	ntals		
St. Paul, Minn	77	46	1 -	1	including report			revious we	eks
Wichita, Kans	48	29	1	2	ll report				
					All Causes, All Ages			328 26	n

HEALTH

HUMAN LEPTOSPIROSIS - (Continued from page 235)

and among females, the 0 to 9-year age group had the highest incidence with five cases (Table 13). In the cases where history of exposure and or contact was available, the greatest number of cases were in persons who were exposed in their homes to cats and dogs (9 cases), or rodents (4 cases). Two cases with suspected rodent exposure occurred in military personnel returning from Vietnam. Accidental exposure in the laboratory accounted for two other cases, and in another three cases, cattle and swine were incriminated as possible infectious sources,

In 37 cases, the presumptive infecting serotype was subblished by supportive clinical, epidemiologic, or laboratory findings. The most frequently reported serotype in 1967 was Leptospira capicada: with 19 cases (Table 14).

Table 13 // ... Cases of Leptospirasis by Sex and Age Distribution

	Duries states, the							
Age Group	Se	x 200 x 24	Total					
Age Group	. Male	Female	Total					
0 - 9	2	-5	7					
10 - 19 -	. 6	2	8					
20 - 29	3.5		6					
30 - 39	4 80%	المناج عارا	4					
40 - 49	4 20 77	5 1 1	5					
50 - 59	6	F" -	6					
60 - 69	1 5	_	1					
70 - 79	1	_	1					
Unknown	5	-	5					
Total	32	11	43					

Table 14
Distribution of 43 Cases of Leptaspirasis
by Presumptive Infecting Seratype

Presumptive Infecting Serotype or Serogroup	Number of Cases
L. canicola	19
L. icterohaemorthagiae	5
L. icterohaemorrhagiae or canicola	3
L. grippotyphosa	3
L. pomona	2
L. pyrogenes	2
L. autumnalis	1
L. tarassovi (hyos)	1
L. icterohaemorrhagiae or autumnalis	1
Unknown	6
Total	13

(Reported by Veterinary Public Health Section, Veterinary Public Health Laboratory Unit, Epidemiological Services Laboratory Section, and Statistics Section, Epidemiology Program, NCDC.)

> A copy of the original report from which these data were derived is available on request from;

> > National Communicable Disease Center Atlanta, Georgia 30333

Attn: Chief, Veterinary Public Health Section Epidemiology Program THE MORBIOITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULA-TION OF 17,000, IS PUBLISHED AT THE NATIONAL COMMUN:CABLE OISEASE CENTER, ATLANTA, GEORGIA.

OISEASE CENTER, ACTIONAL COMMUNICABLE OISEASE CENTER OAVIO J. SENCER, M.O.
CHIEF, EPIOEMIOLOGY PROGRAM
ACTING CHIEF, STATISTICS SECTION IOA L. SHERMAN, M.S.
EQUITOR MICHAEL B. GREGG, M.O.

IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIOUTY AND MORTALITY. THE NATIONAL COMMUNICABLE OSSESSES CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OF COMMUNICABLE OISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

EO TO: NATIONAL COMMUNICABLE OISEASE CENTER ATLANTA, GEORGIA 30333 ATTN: THE EDITOR MORBIOITY AND MORTALITY WEEKLY REPORT

NOTE: THE OATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NOOC BY THE INDIVIOUAL STATE HEALTH OEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATUROAYI COMPILED OATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING EDIOAY



U. S. DEPARTMENT OF H. E. W